

NVIS/NVG COCKPIT COMPATIBILITY TEST SETUP

Alternative Visual Acuity Chart Illuminator Fabrication and Use

Description:

To simulate the amount of light reflected off the target at the level of starlight (no moon), the Rotorcraft Directorate had the following system developed for their use.

Light Source Components

Gooseneck Metal Clip-On Lamp
7.5 watt, 7 1/2s/CW CD
6" Round Damper Baffle

Equipment needed for fabrication

- Drill
- 1/8" drill bit
- Hammer
- Common nail
- No. 2 pencil
- Small flat file
- Ruler with 32nd inch divisions
- Can flat black spray paint
- Roll of black tape

Fabrication instructions:

- Unpackage all equipment
- Install 7.5 watt bulb into lamp, check for operation
- Remove the mounting screws on the sides of the damper baffle by drilling out the rivets on the mounting bracket screws with a 1/8" drill bit.
- Locate the center of the baffle with ruler
- Mark the center with a pencil and punch mark for drilling
- Drill a 1/8" hole in center of the baffle
- Remove sharp metal edges from drilled hole with file (sharp edges could cast shadows)
- Paint the baffle on both sides flat black
- Cover holes in the lamp housing using black tape to prevent light leaks
- Center baffle of the lamp opening
- Secure baffle to the lamp bell housing with black tape (ensure no light leaks).

Light Meter

A portable light meter capable of measuring in hundredths of lux is required.



